Profectis
Technischer Kundendienst

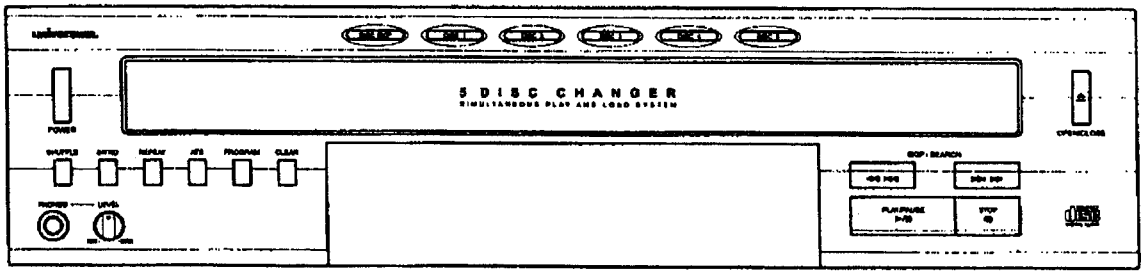
Technische Unterlage

ETNr. 2284982

Best.-Nr.:

100.043-9

988.688-8




```
UTS-Nr.:          999          QUELLE
Best.Nr.:         1000439/02
Ger.Bez.:         UNIVERSUM-CD-WECHSLER

GKz:               G  GERAET
WGT:             654  CD-PLAYER, MD-BAUSTEINE
KD-Sektor:         R  RUNDFUNK
BaumNr.:          00  KEIN DIAGNOSEBAUM VORHANDEN
Klassierung:      CD  CD-PLAYER / -RECORDER
IFW-FehlerGru.:  205  RDF.,VERST.,TB.,PHONO,CD,CB
Type/Privileg/Universum.Nr CD 1095
Beschreibung                SCHWARZ
VK-Preis: 199.00

Serviceart:              01  PROFECTIS
Garantie fuer Kunden     12 Monate
Sondervereinbarungen:     0  SIEHE SERVICEART

Garantiereparatur      0004063  PROFECTIS GMBH
Sondervereinbarungen:        0  SIEHE SERVICEART
```

Technische Daten

Netzanschluß:
230 V ~ (+6 /-10%) 50 Hz

Leistungsaufnahme:
8 Watt

Abmessungen ca.:
B 43,6 x H 11,0 x T 36,5 cm

Optischer Tonabnehmer:
3 Strahlen-Laser

Fehlerkorrektur:
CIRC

D/A-Umwandler:
16 Bit linear mit 8fach Oversampling

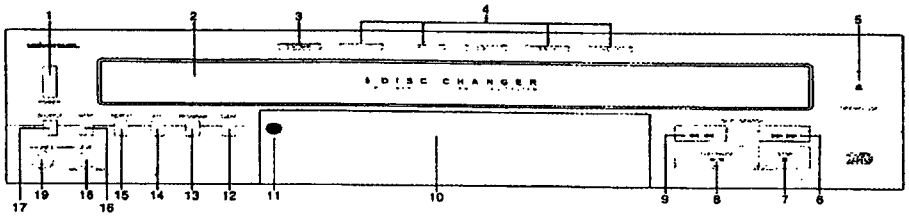
Standardzubehör:
2x Verbindungskabel für Audiosignale
1 x Fernbedienung

Profectis GmbH
Kundendienstzentralleitung Duisburger Str. 57, 90451 Nürnberg
Bei allen Reparaturen sind die gültigen Sicherheitsvorschriften zu beachten

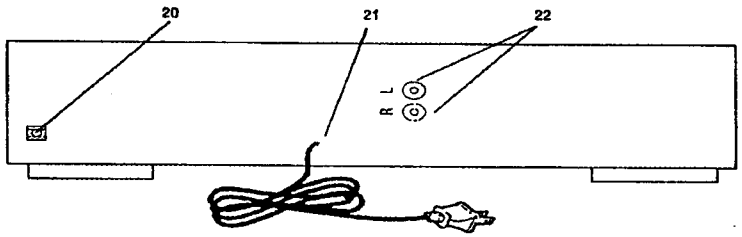
Nachdruck nicht gestattet
Änderungen vorbehalten

Bedienungselemente

CD-Spieler



Rückseite



Bedienungselemente und Funktionen

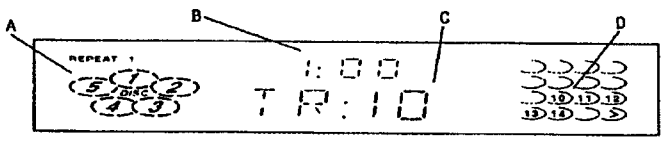
① **POWER** = Netzschalter, Ein-/Ausschalten aus Bereitschaft
② CD-Wechsler-Schublade
③ **DISC SKIP** = Wahl des CD-Faches
④ **DISC 1 - 5** = CD-Direktwahl
⑤ **OPEN/CLOSE** = Öffnen/Schließen der CD-Schublade
⑥ **SKIP/SEARCH ▶▶I▶▶** = Wahl der CD-Titelnummer vorwärts, CD-Suchlauf vorwärts
⑦ **STOP■** = CD-Wiedergabe beenden
⑧ **PLAY/PAUSE ▶/II** = CD-Wiedergabe und Unterbrechen
⑨ **SKIP/SEARCH ◀◀I◀◀** = Wahl der CD-Titelnummer rückwärts, CD-Suchlauf rückwärts
⑩ Displayanzeige
⑪ Fernbedienungsempfänger
⑫ **CLEAR** = Löschen der Programmierung
⑬ **PROGRAM** = Titel speichern
⑭ **ATS** = Programmieren von Titeln die **nicht** gespielt werden
⑮ **REPEAT** = Wiederholung der gesamten CD-Platte, aller Platten oder eines Titels
⑯ **INTRO** = Kurzes Anspielen aller Titel
⑰ **SHUFFLE** = Wiedergabe einer Zufallsreihenfolge
⑱ **LEVEL** = Regeln der Kopfhörerlautstärke
⑲ **PHONES** = Kopfhörerbuchse (6,3 mm Ø)

Rückseite

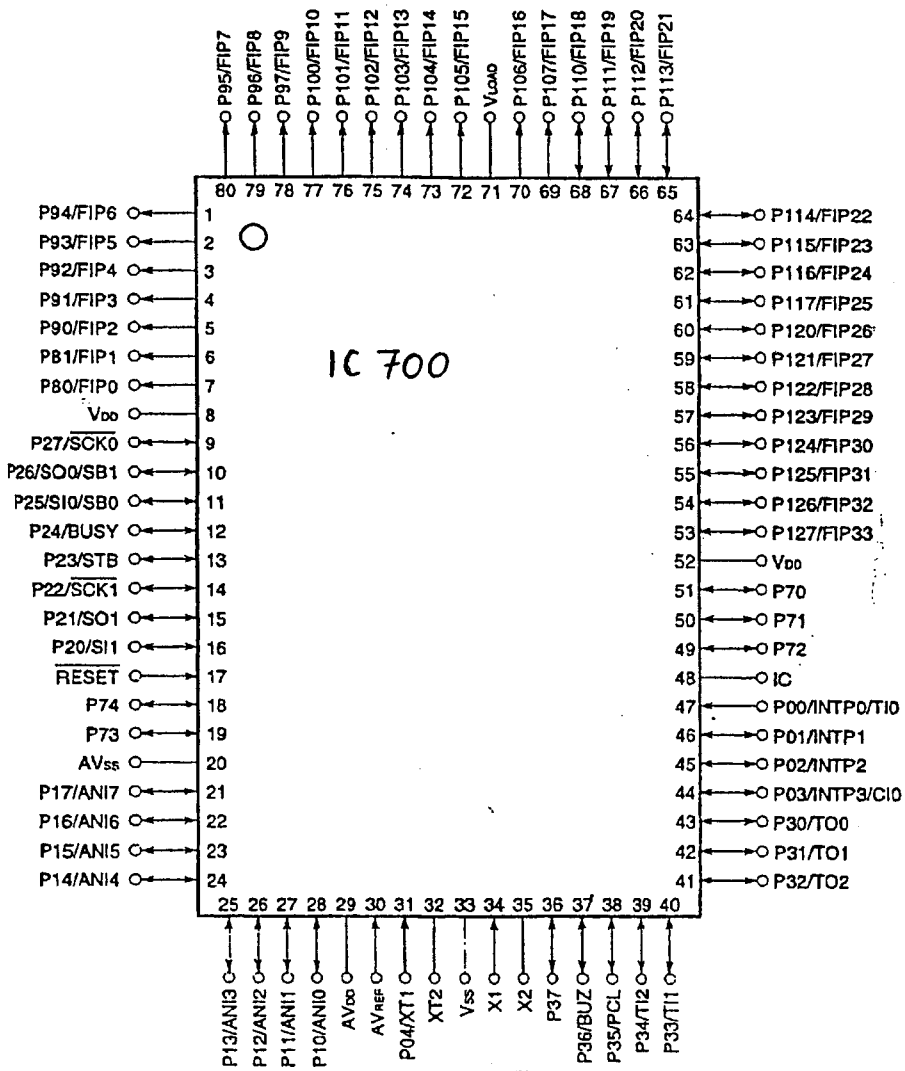
⑳ Optischer (Digital-) Ausgang
㉑ Netzanschlußkabel 230 V/50 Hz
㉒ **AUDIO** = Analoger Ausgang
L = linker Kanal (weiß)
R = rechter Kanal (rot)

Funktionsanzeigen im CD-Spielerdisplay

CD-Display



Ⓐ Anzeige der gewählten CD-Platte **1 - 5**
Ⓑ Spielzeitanzeige
Ⓒ Anzeige der Titelnummer
Ⓓ Kalenderanzeige



P00-P04 : Port 0
P10-P17 : Port 1
P20-P27 : Port 2
P30-P37 : Port 3
P70-P74 : Port 7
P80, P81 : Port 8
P90-P97 : Port 9
P100-P107 : Port 10
P110-P117 : Port 11
P120-P127 : Port 12
INTP0-INTP3 : Interrupt from periphera
TI0-TI2 : Timer input
TO0-TO2 : Timer output
CI0 : Counter input
SB0, SB1 : Serial bus
SI0, SI1 : Serial input
SO0, SO1 : Serial output
SCK0, SCK1 : Serial clock
PCL : Programmable clock
BUZ : Buzzer clock
STB : Strobe
BUSY : Busy
FIP0-FIP33 : Fluorescent indicator par
VLOAD : Negative power supply
X1, X2 : Crystal (main system clo
XT1, XT2 : Crystal (subsystem clock
RESET : Reset
ANI0-ANI7 : Analog input
AVDD : Analog power supply
AVSS : Analog ground
AVREF : Analog reference voltage
VDD : Power supply
VSS : Ground
IC : Internally connected

Recommended External Components

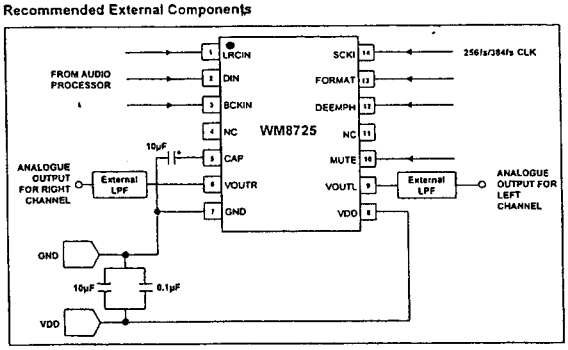
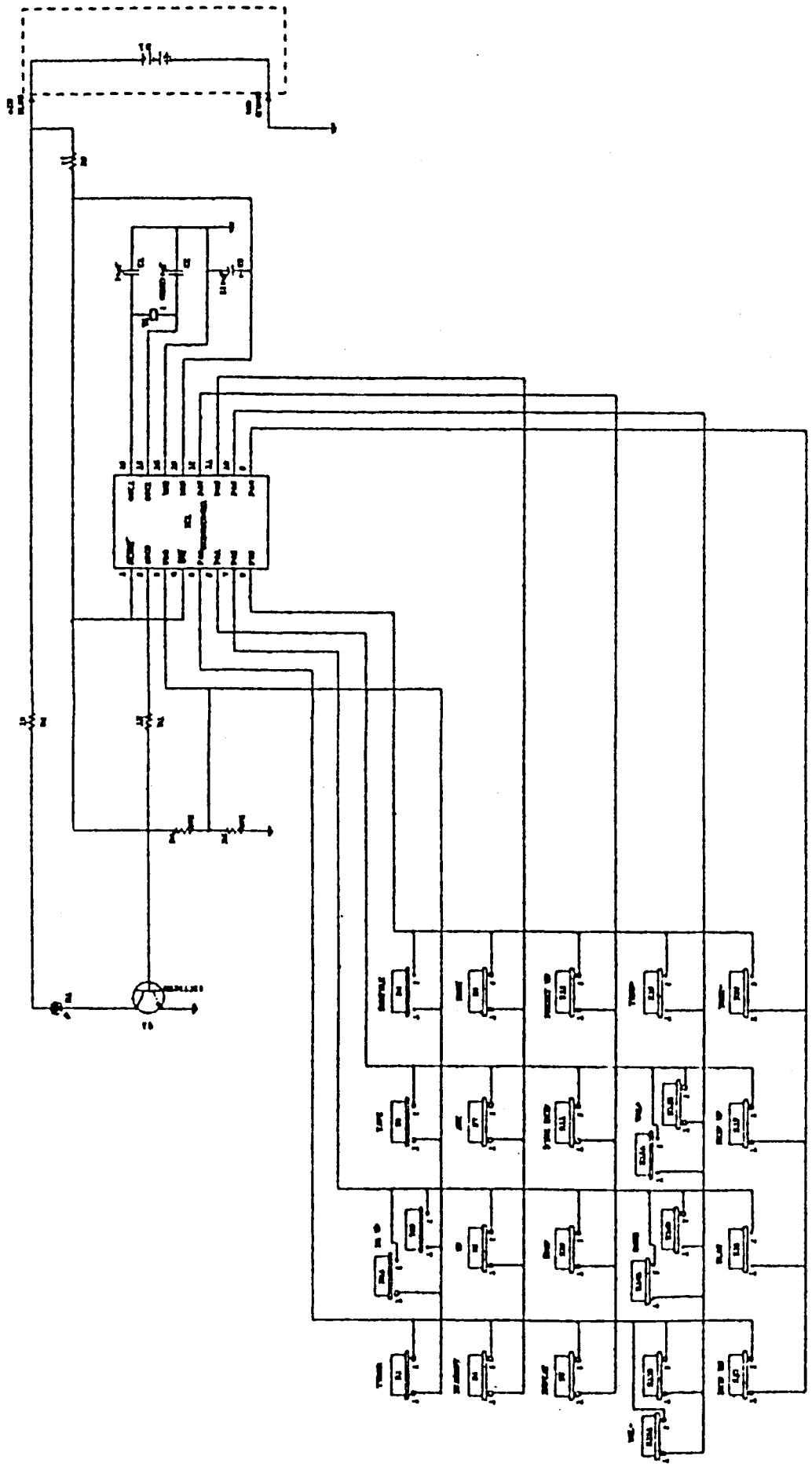


Figure 5 Applications Diagram

PIN	NAME	TYPE	DESCRIPTION
1	LRCIN	Digital input	Sample rate clock input
2	DIN	Digital input	Serial data input
3	BCKIN	Digital input	Bit clock input
4	NC	No connect	No internal connection
5	CAP	Analogue output	Analogue internal reference
6	VOUTR	Analogue output	Right channel DAC output
7	GND	Supply	0V supply
8	VDD	Supply	Positive supply
9	VOUTL	Analogue output	Left channel DAC output
10	MUTE	Digital input	Soft mute control; high = muted
11	NC	No connect	No internal connection
12	DEEMPH	Digital input	De-emphasis select; high = de-emphasis ON (44.1kHz only)
13	FORMAT	Digital input	Data input format select; 'lo' = normal, 'hi' = I²S
14	SCKI	Digital input	System clock input (256fs or 384fs)



PARTNO 20944960 CONT ON SHEET 2 SH NO. 1

AUDIO AMPLIFIER SECTION

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-
APPLIED PRACTICES | SURFACES √ | TOLERANCES OF MACHINED PARTS: FRACTIONS ± | DECIMALS ± | ANGLES ±

TITLE *****CD5-MAIN SCHEMATIC
FIRST MADE FOR DAD2165 FILENAME: 2165AMS1.SCH

#####20944960 CONT ON SHEET 2 SH NO. 1

TO/FROM CD CAROUSEL DRIVER BD
AUDIOL
GND
AUDIOR
+9.4V
+5V

AUDIOL
AUDIOR
VREF
GND
LEFT_AUDIO
RIGHT_AUDIO
+10V
CMUTE
SYSPOWER
FWRDET
+5V

GROUND
RED LEFT AUDIO
BLK RIGHT AUDIO
NJ01
AUDIO OUTPUT
RCA PHONO JACKS

HP_LEFT
HP_RIGHT
HEADPHONE AUDIO OUTPUT

TO KEY DISPLAY BOARD

FROM TCX125-0
TOTX178A
INPUT
VCC
OUT
GND

HEADPHONE AMPLIFIER SECTION

POWER SECTION

NOTES:

1. Unless otherwise specified:
   A. All resistor values are in ohms, 1/4W
   B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions and volume control minimum
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5. Shaded and ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

COMPONENTS DESIGNATED BY THE SAFETY SYMBOL SHOULD, WHEN NECESSARY FOR REPAIR, BE REPLACED BY ORIGINAL PARTS, APPROVED BY THE MANUFACTURER. ONLY THEN CAN THE OPERATIONAL SAFETY BE GUARANTEED.

REVISIONS
REVISION 01 06-30-1999 ZHOUFENGZHUAN
ADD COMPONENT: NC10 C503 OP01(TOTX178A)
ABOUT THE DETAIL,SEE THIS BOX.

K-PRINTS TO

MADE BY PATRICIA/LUO YE/LI ROTAO 24 JUL. 1998
APPROVALS
ENGINEERING DEPT
GUANGZHOU LOCATION
#####20944960 CONT ON SHEET 2 SH NO. 1

VIDE-26163 / DRUCK 1

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:-
APPLIED PRACTICES | SURFACES ✓ | TOLERANCES ON MACHINED PARTS: FRACTIONS ± | DECIMALS ± | ANGLES ±

TITLE +++++CD5-DRIVER SCH

FIRST MADE FOR TAD2165 (RPB065)

DM# 20944970

TO/FROM
KEY DISPLAY BOARD

CAROUSEL CCW CTRL
CAROUSEL CW CTRL
CAROUSEL POSITION SENSOR
DISC SENSOR
DRAWER POSITION PI1
DRAWER POSITION PI2
DRAWER CCW CTRL
DRAWER CW CTRL
SERIAL CLOCK
DIGITAL GROUND
SERIAL DATA
CD RESET

FROM
POWER BD
+9.4V
GND

TO
POWER BD
AUDIOL
GND
AUDIOR

TO/FROM
CAROUSEL MOTOR PCB
CAROUSEL MTR CTRL 1
CAROUSEL MTR CTRL 2
DISC SENSOR
CAROUSEL POSITION SENSOR
GND

DRAWER POSITION
SENSORS

DRAWER
MOTOR
(CIRCLE)

TCM110-2B BOARD
TCM115-2B

REVISIONS | PRINTS TO: TAD, TAS

DRAWN BY G H Tan
ISSUED FEB.27.1998
APPROVALS
ENGINEERING
CETMA

CAROUSEL MOTOR BOARD

CAROUSEL POSITION SENSOR

DISC SENSOR

TO/FROM
DRAWER MOTOR PCB

CAROUSEL MOTOR
(RED DOT)

CAROUSEL MTR CTRL1
CAROUSEL MTR CTRL2
DISC SENSOR
MOTOR GROUND
CAROUSEL POSITION
PI POWER 2

CAROUSEL MTR CTRL1
CAROUSEL MTR CTRL2

RESET
CIRCUIT

HEADPHONE JACKS

REPEAT 1 ALL DISCS
DISC
REMAIN TIME
PROGRAM
INTRO
ATS MIX
SHUFFLE

	US	EUR
RC55	-	USED
RC56	USED	-

REMOTE CONTROL
RECEIVER

REVISIONS

TITLE
*****DAD2165 KEY BD SCHEMATIC.

FIRST MADE FOR DAD2165

REV:

DRAWN BY
TAN SW/LUO YE/LI BOTAO

ISSUED 26TH JUN. 1998

APPROVED

ENGINEERING
GUANGZHOU

DEV CO. DEPT.
LOCATION